



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

D412-702-345
Job Sheet 174058



Part No: D412-702-345

Job Qty: 1 ea

Part Name: Shoulder Harness, 3-Point Att., Inertia Reel Continuous Belt, 4 Man Aft



Part Weight: 0 lbs

Status: Scheduled

Priority: Medium

Job Created: 3/9/18

Job Tracking No:

Due Date: 3/30/18

Created By: Linda Lacelle

Type: SOLD

Description:

Note: DWG REV A IPP Rev:A new issue DD 10.04.30 verified:EC

Ship Via:

et/600

21
9-80

Bill of Materials

Job Routing

Op No	Operation	Qty	Start Date	Due Date	Standard		Workcenter/Supplier		Sign-off
					Setup	Run	Workcenter / Supplier	Lead Time	
					hrs	Hrs			
90	Start up Operation	1 Ea	3/30/18	3/30/18	0.00	0.00	Start Up Stores/Pkg-2		DAS 6:30 PM MAR 12 2018
110	Packaging	1 pcs	3/30/18	3/30/18	0.00	0.00	Packaging1-4		6:30 PM MAR 12 2018
120	QC	1 pcs	3/30/18	3/30/18	0.00	0.00	QC4		SMB
125	DC	1 pcs	3/30/18	3/30/18	0.00	0.00	DC		
130	Packaging	1 pcs	3/30/18	3/30/18	0.00	0.00	Packaging3-2		DAS 6:30 PM MAR 14 2018
140	QC21-FG	1 Ea	3/30/18	3/30/18	0.00	0.00	QC21		21 9-80 MAR 14 2018

Job BOM

Part / Item	Component Name	Quantity	Operation	Container
AN4-16A	Bolt	2 Ea (2 ea)	90-Start up Operation	
AN4-25A	Bolt	4 Ea (4 ea)	90-Start up Operation	
AN4-27A	Bolt	4 Ea (4 ea)	90-Start up Operation	
D3572-041	Guide	2 Ea (2 ea)	90-Start up Operation	
D412-702-311	Harness Assembly	1 Ea (1 ea)	90-Start up Operation	
D412-702-313	Harness Assembly	1 Ea (1 ea)	90-Start up Operation	
D412-702-321	Harness Assembly	1 Ea (1 ea)	90-Start up Operation	
D412-702-323	Harness Assembly	1 Ea (1 ea)	90-Start up Operation	
MS21042L4	Nut	6 Ea (6 ea)	90-Start up Operation	
NAS1149D0463J	Washer	20 Ea (20 ea)	90-Start up Operation	

Job Allocations

Operation	Component Part	Required	Inventory	Allocated
90-Start up Operation	AN4-16A	2	345	0
	AN4-25A	4	33	0
	AN4-27A	4	35	0
	D3572-041	2	7	0
	D412-702-311	1	0	0
	D412-702-313	1	0	0
	D412-702-321	1	0	0
	D412-702-323	1	0	0
	MS21042L4	6	3,513	0
	NAS1149D0463J	20	4,644	0

W/560

DQA: _____ Date: _____

WORK ORDER NON-CONFORMANCE / UPDATE



QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QS1042) Approval		
Description Work Order Deviation				Disposition				Completed By	
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power I ☐					
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/P ☐					
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐					
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐					
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wro ☐					
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out ☐					
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off ☐					
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mi ☐					
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐					
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐					
Past Expiry Date ☐	Manufacturing Process ☐	OTHER :							
Misidentified ☐	Past Due ☐								

Container No: S050009
Part: D412-702-345
Job No: 174058
Serial No/Batch: S050009
 Revision: _____
 Inspector: _____

DART Aerospace Ltd.
 12710 Aberdeen Street
 HM Keston, ON K6A 1K7
 CANADA
 TEL.: 1 813 632-5200
 Email: sales@dartaero.com
 www.dartaerospace.com

Date: 03/12/18

Part Specifications
Specifications could not be found.

Plex 3/9/18 1:40 PM dart.lacelle.linda

DQA: _____ Date: _____



WORK ORDER NON-CONFORMANCE / UPDATE

QA Closed: _____ Date: _____

Work Order update only ☐

Work Order: _____ Part No. _____ NCR No. _____		DISPOSITION Rework ☐ Scrap ☐ Use-as-is ☐ Suspected Unapproved ☐		AGAINST DEPARTMENT/PROCESS Skid-tube ☐ Machining ☐ Thermoforming ☐ Large Fab ☐ Cross tube ☐ Small Fab ☐ Finishing ☐ Composite ☐ Water Jet ☐ Prod. Eng. Coord. ☐ Rec/Store/Packaging ☐ Supplier ☐ Engineering ☐ Quality ☐ Other ☐					
Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
Equip/Tooling ☐	Supplier ☐	Cracks ☐	Broken/Damage/Defect ☐	Weld ☐	Part Incorrect ☐				
Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
Material ☐	Use for Testing ☐	Cuffs ☐	Contamination ☐	Out of Sequence ☐	Part Moved ☐				
Internal Transport ☐	Poor Information ☐	Crushing ☐	Countersink ☐	Off-set ☐	Drawing ☐				
Tribal Knowledge ☐	Rushing ☐	Heat Treat ☐	Cut Too Short ☐	Mislabeled ☐	Finish ☐				
LOA ☐	Product Improvement ☐	Wave/Twist in Tube ☐	Instructions Incomplete/Unclear ☐	Fit/Function ☐	Misread ☐				
Substation ☐	Process Improvement ☐	Marks/Chatter ☐	Drill Holes ☐	Misaligned/off center ☐	Turning Sequence ☐				
Past Expiry Date ☐	Manufacturing Process ☐	OTHER : _____							
Misidentified ☐	Past Due ☐								



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Container View (Active) - Master Unit Containers

Master Unit No	Container No	Part No	Part Name	From Container	Current Location	Quantity
001560	S049744	AN4-16A	Bolt	F156935	FG029	2
001560	S049745	AN4-25A	Bolt	F156935	FG029	4
001560	S049746	AN4-27A	Bolt	F156935	FG029	4
001560	S049759	D3572-041	Guide	F156935	FG029 147494	2
001560	S049737	D412-702-311	Harness Assembly	F156935	FG029 156875	1
001560	S049738	D412-702-313	Harness Assembly	F156935	FG029 147671	1
001560	S049741	D412-702-321	Harness Assembly	F156935	FG029 147679	1
001560	S049742	D412-702-323	Harness Assembly	F156935	FG029 157078	1
001560	S049749	MS21042L4	Nut	F156935	FG029	6
001560	S049755	NAS1149D0463J	Washer	F156935	FG029	20

Note: Ad hoc query view of Part.dbo.Container where Container.Active = 1.

Plex 3/12/18 9:21 AM dart.quirion.sonia

QTY -337	QTY -341	QTY -343	QTY -345	QTY -347	QTY -349	QTY -351	Part Number	Description
X							D214-702-337	Dart 5-Man 3 Point Aft Facing Shoulder Harness Kit, for 214 Aircraft
	X						D412-702-341	Dart 13-Man 3-Point Shoulder Harness Kit
		X					D412-702-343	Dart 5-Man 3-Point Forward Facing Shoulder Harness Kit
			X				D412-702-345	Dart 4-Man 3-Point Aft Facing Shoulder Harness Kit
				X			D412-702-347	Dart 4-Man 3-Point Side Facing Shoulder Harness Kit
					X		D412-702-349	Dart 1-Man 3-Point Forward Facing Shoulder Harness Kit
						X	D412-702-351	Dart 1-Man 3-Point Shoulder Harness Kit
	1	1		1	1		D412-702-059	GROMMET KIT
	2	1		1			D412-702-301	HARNESS ASSEMBLY
	2	1		1			D412-702-303	HARNESS ASSEMBLY
	1	1			1		D412-702-305	HARNESS ASSEMBLY
	1	1				1	D412-702-307	HARNESS ASSEMBLY
	1	1					D412-702-309	HARNESS ASSEMBLY
1	1		1				D412-702-311	HARNESS ASSEMBLY
1	1		1				D412-702-313	HARNESS ASSEMBLY
	1			1			D412-702-315	HARNESS ASSEMBLY
	1			1			D412-702-317	HARNESS ASSEMBLY
1							D412-702-319	HARNESS ASSEMBLY
1	1		1				D412-702-321	HARNESS ASSEMBLY
1	1		1				D412-702-323	HARNESS ASSEMBLY
	2	2				1	D3542-1	BRACKET
	7	3		4	1		D3571-1	GUIDE
	2	2				1	D3571-3	GUIDE
	2		2				D3572-041	GUIDE ASSEMBLY
	12	6		6	2		D3578-041	DOUBLER
	2	2				1	D3610-041	BRACKET
	2	2				1	D3618-1	CAP
				2			D3677-1	SPACER
	9	5		4	1	1	D3761-1-041	HOOK AND LOOP STRIP
1							D3920-041	SEATBELT GUIDE ASSEMBLY
2							D3920-5	SEATBELT GUIDE
	4	4				2	AN4-10A	BOLT
1	2		2				AN4-16A	BOLT
1							AN4-21A	BOLT
7	4		4				AN4-25A	BOLT
	4		4				AN4-27A	BOLT
	2	2				1	AN4-44A	BOLT
18	26	6	20			3	AN960JD416	WASHER (OR NAS1149D0463J)
	4	4				2	AN960JD416L	WASHER (OR NAS1149D0416J)
	24	12		12	4		CR3212-4-4	RIVET
9	12	6	6			3	MS21042L4	NUT (OR MS21042-4)
				6			MS21069L3	ANCHOR NUT
	2	2				1	MS24693S274	SCREW
				2			MS24694S282	SCREW
	3	3			1		MS24694S56	SCREW
	10	2		8			MS24694S58	SCREW
	1	1			1		MS24694S60	SCREW

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Revision: B

Date: 17.06.22

Change Record

Part Number D412-702-345

Description 4 MAN SHOULDER HARNESS, 3 POINT, AFT FACING

Page 6 of 1 [illegible]

DQA: _____ Date: _____



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QA Closed: _____ Date: _____

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Date :		Step #:		QTY Effective :			MRB (QSI042) Approval Completed By Lead hand / Supervisor Approval Verification QC / QA Coordinator Approval		
Description Work Order Deviation				Disposition					
Root Cause		FAULT CATEGORY							
Environment ☐	No Re-verification ☐	Pressure/Forced ☐	Temperature/Cure ☐	Power Loss/Surge ☐	Positioned Wrong ☐				
Design ☐	Operator ☐	Bending ☐	Set-up ☐	Folio/Program ☐	Outside Dimensions ☐				
Doc/Data ☐	Offset/Setup ☐	Centre Not Concentric ☐	BOM/Route ☐	Grain ☐	Over/Under tolerance ☐				
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Handling/Pre ☐	Training ☐	Crimp/Kink/Ripple/Wave ☐	Inspection Incomplete/Unqualified ☐	Wrong Stock Pulled ☐	Part Lost/Missing ☐				
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